



## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/790,224  
Source: IFW0  
Date Processed by STIC: 3/11/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221

Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/efb/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/03):  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03



IFWO

## RAW SEQUENCE LISTING

DATE: 03/11/2004

PATENT APPLICATION: US/10/790,224

TIME: 09:10:04

Input Set : D:\OP1741seqUS.txt

Output Set: N:\CRF4\03112004\J790224.raw

E--> 3 <110> APPLICANT: *← mandatory response needed*  
 5 <120> TITLE OF INVENTION: Method for producing L-arginine or L-lysine by fermentation  
 W--> 7 <130> FILE REFERENCE:  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/790,224  
 C--> 9 <141> CURRENT FILING DATE: 2004-03-02  
 9 <150> PRIOR APPLICATION NUMBER: JP 2003-  
 10 <151> PRIOR FILING DATE: 2003-03-03  
 12 <160> NUMBER OF SEQ ID NOS: 24  
 14 <170> SOFTWARE: PatentIn Ver. 2.0

## ERRORED SEQUENCES

516 <210> SEQ ID NO: 18  
 517 <211> LENGTH: 1045  
 518 <212> TYPE: PRT  
 519 <213> ORGANISM: Brevibacterium lactofermentum  
 521 <400> SEQUENCE: 18  
 522 Met Ser Gly Pro Leu Arg Ser Glu Arg Lys Val Val Gly Phe Val Arg  
 523 1 5 10 15  
 524 Asp Pro Leu Pro Lys Val Gly Ser Leu Ser Leu Lys Ser Glu His Ala  
 525 20 25 30  
 526 Gln Ala Asp Leu Glu His Leu Gly Trp Arg Asn Val Glu Ser Leu Asp  
 527 35 40 45  
 528 Leu Leu Trp Gly Leu Ser Gly Ala Gly Asp Pro Asp Val Ala Leu Asn  
 529 50 55 60  
 530 Leu Leu Ile Arg Leu Tyr Gln Ala Leu Glu Ala Ile Gly Glu Asp Ala  
 531 65 70 75 80  
 532 Arg Asn Glu Leu Asp Gln Glu Ile Arg Gln Asp Glu Glu Leu Arg Val  
 533 85 90 95  
 534 Arg Leu Phe Ala Leu Leu Gly Gly Ser Ser Ala Val Gly Asp His Leu  
 535 100 105 110  
 536 Val Ala Asn Pro Leu Gln Trp Lys Leu Leu Lys Leu Asp Ala Pro Ser  
 537 115 120 125  
 538 Arg Glu Glu Met Phe Gln Ala Leu Leu Glu Ser Val Lys Ala Gln Pro  
 539 130 135 140  
 540 Ala Val Leu Glu Val Glu Asp Phe Ser Asp Ala His Asn Ile Ala Arg  
 541 145 150 155 160  
 542 Asp Asp Leu Ser Thr Pro Gly Phe Tyr Thr Ala Ser Val Thr Gly Pro  
 543 165 170 175  
 544 Glu Ala Glu Arg Val Leu Lys Trp Thr Tyr Arg Thr Leu Leu Thr Arg  
 545 180 185 190  
 546 Ile Ala Ala His Asp Leu Ala Gly Thr Tyr Pro Thr Asp Met Arg Arg

*p.4*  
 Does Not Comply  
 Corrected Diskette Needed

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547          195          200          205
548 Lys Gly Gly Asp Pro Val Pro Phe Ser Thr Val Thr Met Gln Leu Ser
549          210          215          220
550 Asp Leu Ala Asp Ala Ala Leu Thr Ala Ala Leu Ala Val Ala Ile Ala
551 225          230          235          240
552 Asn Val Tyr Gly Glu Lys Pro Val Asp Ser Ala Leu Ser Val Ile Ala
553          245          250          255
554 Met Gly Lys Cys Gly Ala Gln Glu Leu Asn Tyr Ile Ser Asp Val Asp
555          260          265          270
556 Val Val Phe Val Ala Glu Pro Ala Asn Ser Lys Ser Thr Arg Thr Ala
557          275          280          285
558 Ala Glu Leu Ile Arg Ile Gly Ser Asn Ser Phe Phe Glu Val Asp Ala
559          290          295          300
560 Ala Leu Arg Pro Glu Gly Lys Ser Gly Ala Leu Val Arg Ser Leu Asp
561 305          310          315          320
562 Ser His Met Ala Tyr Tyr Lys Arg Trp Ala Glu Thr Trp Glu Phe Gln
563          325          330          335
564 Ala Leu Leu Lys Ala Arg Pro Met Thr Gly Asp Ile Asp Leu Gly Gln
565          340          345          350
566 Ser Tyr Val Asp Ala Leu Ser Pro Leu Ile Trp Ala Ala Ser Gln Arg
567          355          360          365
568 Glu Ser Phe Val Thr Asp Val Gln Ala Met Arg Arg Arg Val Leu Asp
569          370          375          380
570 Asn Val Pro Glu Asp Leu Arg Asp Arg Glu Leu Lys Leu Gly Arg Gly
571 385          390          395          400
572 Gly Leu Arg Asp Val Glu Phe Ala Val Gln Leu Leu Gln Met Val His
573          405          410          415
574 Gly Arg Ile Asp Glu Thr Leu Arg Val Arg Ser Thr Val Asn Ala Leu
575          420          425          430
576 His Val Leu Val Asp Gln Gly Tyr Val Gly Arg Glu Asp Gly His Asn
577          435          440          445
578 Leu Ile Glu Ser Tyr Glu Phe Leu Arg Leu Leu Glu His Arg Leu Gln
579          450          455          460
580 Leu Glu Arg Ile Lys Arg Thr His Leu Leu Pro Lys Pro Asp Asp Arg
581 465          470          475          480
582 Met Asn Met Arg Trp Leu Ala Arg Ala Ser Gly Phe Thr Gly Ser Met
583          485          490          495
584 Glu Gln Ser Ser Ala Lys Ala Met Glu Arg His Leu Arg Lys Val Arg
585          500          505          510
586 Leu Gln Ile Gln Ser Leu His Ser Gln Leu Phe Tyr Arg Pro Leu Leu
587          515          520          525
588 Asn Ser Val Val Asn Leu Ser Ala Asp Ala Ile Arg Leu Ser Pro Asp
589          530          535          540
590 Ala Ala Lys Leu Gln Leu Gly Ala Leu Gly Tyr Leu His Pro Ser Arg
591 545          550          555          560
592 Ala Tyr Glu His Leu Thr Ala Leu Ala Ser Gly Ala Ser Arg Lys Ala
593          565          570          575
594 Lys Ile Gln Ala Met Leu Leu Pro Thr Leu Met Glu Trp Leu Ser Gln
595          580          585          590

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```

596 Thr Ala Glu Pro Asp Ala Gly Leu Leu Asn Tyr Arg Lys Leu Ser Asp
597      595      600      605
598 Ala Ser Tyr Asp Arg Ser Trp Phe Leu Arg Met Leu Arg Asp Glu Gly
599      610      615      620
600 Val Val Gly Gln Arg Leu Met Arg Ile Leu Gly Asn Ser Pro Tyr Ile
601 625      630      635      640
602 Ser Glu Leu Ile Ile Ser Thr Pro Asp Phe Val Lys Gln Leu Gly Asp
603      645      650      655
604 Ala Ala Ser Gly Pro Lys Leu Leu Ala Thr Ala Pro Thr Gln Val Val
605      660      665      670
606 Lys Ala Ile Lys Ala Thr Val Ser Arg His Glu Ser Pro Asp Arg Ala
607      675      680      685
608 Ile Gln Ala Ala Arg Ser Leu Arg Arg Gln Glu Leu Ala Arg Ile Ala
609      690      695      700
610 Ser Ala Asp Leu Leu Asn Met Leu Thr Val Gln Glu Val Cys Gln Ser
611 705      710      715      720
612 Leu Ser Leu Val Trp Asp Ala Val Leu Asp Ala Ala Leu Asp Ala Glu
613      725      730      735
614 Ile Arg Ala Ala Leu Asn Asp Pro Gln Lys Pro Asp Gln Pro Leu Ala
615      740      745      750
616 Asn Ile Ser Val Ile Gly Met Gly Arg Leu Gly Gly Ala Glu Leu Gly
617      755      760      765
618 Tyr Gly Ser Asp Ala Asp Val Met Phe Val Cys Glu Pro Val Ala Gly
619      770      775      780
620 Val Glu Glu His Glu Ala Val Thr Trp Ser Ile Ala Ile Cys Asp Ser
621 785      790      795      800
622 Met Arg Ser Arg Leu Ala Gln Pro Ser Gly Asp Pro Pro Leu Glu Val
623      805      810      815
624 Asp Leu Gly Leu Arg Pro Glu Gly Arg Ser Gly Ala Ile Val Arg Thr
625      820      825      830
626 Val Asp Ser Tyr Val Lys Tyr Tyr Glu Lys Trp Gly Glu Thr Trp Glu
627      835      840      845
628 Ile Gln Ala Leu Leu Arg Ala Ala Trp Val Ala Gly Asp Arg Glu Leu
629      850      855      860
630 Gly Ile Lys Phe Leu Glu Ser Ile Asp Arg Phe Arg Tyr Pro Val Asp
631 865      870      875      880
632 Gly Ala Thr Gln Ala Gln Leu Arg Glu Val Arg Arg Ile Lys Ala Arg
633      885      890      895
634 Val Asp Asn Glu Arg Leu Pro Arg Gly Ala Asp Arg Asn Thr His Thr
635      900      905      910
636 Lys Leu Gly Arg Gly Ala Leu Thr Asp Ile Glu Trp Thr Val Gln Leu
637      915      920      925
638 Leu Thr Met Met His Ala His Glu Ile Pro Glu Leu His Asn Thr Ser
639      930      935      940
640 Thr Leu Glu Val Leu Glu Val Leu Glu Lys His Gln Ile Ile Asn Pro
641 945      950      955      960
642 Val Gln Val Gln Thr Leu Arg Glu Ala Trp Leu Thr Ala Thr Ala Ala
643      965      970      975
644 Arg Asn Ala Leu Val Leu Val Arg Gly Lys Arg Leu Asp Gln Leu Pro

```

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```

645          980          985          990
646 Thr Pro Gly Pro His Leu Ala Gln Val Ala Gly Ala Ser Gly Trp Asp
647          995          1000          1005
648 Pro Asn Glu Tyr Gln Glu Tyr Leu Glu Asn Tyr Leu Lys Val Thr Arg
649      1010          1015          1020
650 Lys Ser Arg Gln Val Val Asp Glu Val Phe Trp Gly Val Asp Ser Met
E--> 651 025 1025          1030          1035          1040
652 Glu Gln Arg Glu Phe
653          1045

```

When numbering  
the first amino  
acid on a line,  
begin the number  
directly under  
the first letter  
of the amino acid.

e.g. Lys | S | Ser  
1025 | P |  
          | A |  
          | C |

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/790,224

DATE: 03/11/2004

TIME: 09:10:05

Input Set : D:\OP1741seqUS.txt

Output Set: N:\CRF4\03112004\J790224.raw

L:3 M:282 E: Numeric Field Identifier Missing, <110> APPLICANT NAME  
L:7 M:201 W: Mandatory field data missing, <130> FILE REFERENCE  
L:9 M:270 C: Current Application Number differs, Replaced Current Application No  
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:651 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:18